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Titolo	Time-frequency analysis [[electronic resource]] : concepts and methods / / edited by Franz Hlawatsch and Francois Auger
Pubbl/distr/stampa	London, : ISTE Hoboken, NJ, : Wiley, 2008
ISBN	1-282-16507-0 9786612165078 0-470-61120-0 0-470-39383-1
Descrizione fisica	1 online resource (436 p.)
Collana	ISTE ; ; v.36
Altri autori (Persone)	HlawatschF (Franz) AugerFrancois
Disciplina	621.382/2 621.3822
Soggetti	Signal processing - Mathematics Time-series analysis Frequency spectra
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Time-Frequency Analysis; Contents; Preface; First part. Fundamental Concepts and Methods; Chapter 1. Time-Frequency Energy Distributions: An Introduction; 1.1. Introduction; 1.2. Atoms; 1.3. Energy; 1.3.1. Distributions; 1.3.2. Devices; 1.3.3. Classes; 1.4. Correlations; 1.5. Probabilities; 1.6. Mechanics; 1.7. Measurements; 1.8. Geometries; 1.9. Conclusion; 1.10. Bibliography; Chapter 2. Instantaneous Frequency of a Signal; 2.1. Introduction; 2.2. Intuitive approaches; 2.3. Mathematical definitions; 2.3.1. Ambiguity of the problem; 2.3.2. Analytic signal and Hilbert transform 2.3.3. Application to the definition of instantaneous frequency2.3.4. Instantaneous methods; 2.4. Critical comparison of the different definitions; 2.4.1. Interest of linear filtering; 2.4.2. Bounds of the quantities introduced; 2.4.3. Instantaneous nature; 2.4.4. Interpretation by the average; 2.5. Canonical pairs; 2.6. Phase signals; 2.6.1. Blaschke factors; 2.6.2. Oscillatory singularities; 2.7. Asymptotic phase signals;

2.7.1. Parabolic chirp; 2.7.2. Cubic chirp; 2.8. Conclusions; 2.9. Bibliography; Chapter 3. Linear Time-Frequency Analysis I: Fourier-Type Representations
3.1. Introduction3.2. Short-time Fourier analysis; 3.2.1. Short-time Fourier transform; 3.2.2. Time-frequency energy maps; 3.2.3. Role of the window; 3.2.4. Reconstruction/synthesis; 3.2.5. Redundancy; 3.3. Gabor transform; Weyl-Heisenberg and Wilson frames; 3.3.1. Sampling of the short-time Fourier transform; 3.3.2. Weyl-Heisenberg frames; 3.3.3. Zak transform and "critical" Weyl-Heisenberg frames; 3.3.4. Balian-Low theorem; 3.3.5. Wilson bases and frames, local cosine bases; 3.4. Dictionaries of time-frequency atoms; adaptive representations
3.4.1. Multi-scale dictionaries of time-frequency atoms3.4.2. Pursuit algorithm; 3.4.3. Time-frequency representation; 3.5. Applications to audio signals; 3.5.1. Analysis of superimposed structures; 3.5.2. Analysis of instantaneous frequency variations; 3.5.3. Transposition of an audio signal; 3.6. Discrete algorithms; 3.6.1. Fast Fourier transform; 3.6.2. Filter banks: fast convolution; 3.6.3. Discrete short-time Fourier transform; 3.6.4. Discrete Gabor transform; 3.7. Conclusion; 3.8. Acknowledgements; 3.9. Bibliography
Chapter 4. Linear Time-Frequency Analysis II: Wavelet-Type Representations4.1. Introduction: scale and frequency; 4.2. Continuous wavelet transform; 4.2.1. Analysis and synthesis; 4.2.2. Multiscale properties; 4.3. Discrete wavelet transform; 4.3.1. Multi-resolution analysis; 4.3.2. Mallat algorithm; 4.3.3. Graphical representation; 4.4. Filter banks and wavelets; 4.4.1. Generation of regular scaling functions; 4.4.2. Links with approximation theory; 4.4.3. Orthonormality and bi-orthonormality/perfect reconstruction; 4.4.4. Polyphase matrices and implementation
4.4.5. Design of wavelet filters with finite impulse response

Sommario/riassunto

Covering a period of about 25 years, during which time-frequency has undergone significant developments, this book is principally addressed to researchers and engineers interested in non-stationary signal analysis and processing. It is written by recognized experts in the field.

2. Record Nr. UNISA996207565203316

Titolo	Gulf shipper magazine
Pubbl/distr/stampa	Miami, FL, : Journal of Commerce, Inc
Descrizione fisica	1 online resource
Disciplina	387
Soggetti	Shipping Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico

3. Record Nr. UNINA9910892833203321

Titolo	Revista de filosofía de la Universidad de Costa Rica
Pubbl/distr/stampa	San José, Costa Rica, : Departamento de Filosofía de la Facultad Central de Ciencias y Letras
ISSN	2215-5589
Descrizione fisica	1 online resource
Disciplina	105
Soggetti	Philosophy Philosophy - Latin America Philosophie Philosophie - Amérique latine FILOSOFIA - PUBLICACIONES PERIODICAS Periodicals. Latin America
Lingua di pubblicazione	Spagnolo
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed